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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/950,052	09/12/2001	Josef Pitha		9900
7590 04/21/2004		EXAM	INER	
Glenna Hendricks, Esq.			GITOMER, RALPH J	
P.O. Box 2509 Fairfax, VA 22031-2509			ART UNIT	PAPER NUMBER
,			1651	
			DATE MAILED: 04/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/950,052	PITHA ET AL.				
omos risusir summary	Examiner Dalah Citaman	Art Unit				
The MAILING DATE of this communication app	Ralph Gitomer					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on <u>09 March 2004</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) 9-14 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(sofilinary (FTO-413) s)/Mail Date nformal Patent Application (PTO-152)				

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Applicant's election with traverse of Group I, claims 1-8, in Paper No. 5 is acknowledged. The traversal is on the ground(s) that the groups are in the same subclass. This is not found persuasive because each group is an independent and distinct invention as set forth in the Restriction Requirement.

The requirement is still deemed proper and is therefore made FINAL.

Please update the specification regarding related applications. Also please inform the examiner as to how this CIP differs from the parent to determine the proper priority date. Priority is granted to 9/12/01 at this time.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicants admissions.

The claims are directed toward obtaining beneficial results by administering a composition containing a compound which blocks the use of glucose. The specification disclosed administering each of the compounds claimed for blocking the use of glucose

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and provides journal citations each of which was published at least a year before applicant's effective filing date as evidentiary proof. In the event that there is a definite correlation between blocking the metabolism of glucose and a beneficial biological result, then this is an inherent property of administering a compound that blocks the use of glucose.

Claims 1, 2, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Nutrition Reviews.

Nutrition Reviews entitled "Absorption and Effect of Ingested Mannoheptulose" teaches on page 206, the capacity of mannoheptulose to induce temporary hyperglycemia is known. The secretion and synthesis of insulin is inhibited by mannoheptulose. On page 207 mannoheptulose may be a therapeutic agent for treating hypoglycemic conditions.

Claims 1, 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Francesconi.

Francesconi (Am J Physio) entitled "5-Thio-D-Glucose: Hypothermic Responses in Mice" teaches in the abstract, administering 5-thio-D-glucose with reduced availability of tissue glucose.

Claims 1, 6, 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakata.

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Sakata (Am J Clin Nutr) entitled "Feeding Modulation by Pentose and Hexose Analogues" teaches on page 275S administering 2,5-anhydro-D-mannitol and feeding behavior observed. On page 276S column 1 it has been reported that peripheral administration of 2,5-AM decreases plasma glucose because of its inhibitory action on gluconeogenesis.

All of the features of the claims are taught by each of the above references for the same function as claimed.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention without undue experimentation. Many of the factors regarding undue experimentation have been summarized in In re Wands, 858 F.2d 731, 8 USP!2d 1400 (Fed. Circ. 1988).

The entire scope of the claims has not been enabled because:

- 1. Quantity of experimentation necessary would be undue because of the large proportion of inoperative compounds claimed.
- 2. Amount of direction or guidance presented is insufficient to predict which substances encompassed by the claims would work.

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- 3. Presence of working examples are only for a single specific substance and extension to other compounds has not been specifically taught or suggested.
- 4. The nature of the invention is complex and unpredictable.
- 5. State of the prior art indicates that most related substances are not effective for the claimed functions.
- 6. Level of predictability of the art is very unpredictable.
- 7. Breadth of the claims encompasses an innumerable number of compounds.
- 8. The level of one of ordinary skill in this art is variable.

The present invention would require a great deal of time and expense by a skilled artisan to study the effects of administering the compounds contemplated to obtain some biological results especially given that there are no criteria offered in the specification as to how to gauge the results of the administering. The specification does not offer any working examples which show the results obtained by the administration of compounds which block use of glucose in any controlled fashion. Avocado meal is likely to contain large amounts of fat which would change glucose metabolism. The specification appears to show that it is well known that the compounds of interest (i.e. 2-deoxy-D-glucose; 5-thio-D-glucose; 3-O-methylglucose; 1,5-anydro-D-glucitol; 2,5-anydro-D-mannitol and mannoheptulose) can block the use of glucose in cells to raise blood glucose levels and lower body temperature.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Each of the following applies in all occurrences.

In claim 1 the method steps must be positively recited as gerunds, for example "comprising administration" may be intended to be "comprising administering". In claim 5 "androsugar" is queried.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pitha (US 2002/0035071 A1) is the present application.

Chapnick (US 2003/0092669 A1) teaches normalizing insulin levels.

Kurata (Metabolism) teaches glucose analogues and feeding behavior.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ralph Gitomer whose telephone number is (571) 272-0916. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on (571) 272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ralph Gitomer Primary Examiner Art Unit 1651

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